

75 Ohm QR® Trunk and Distribution Cable, black PE jacket



Product Classification

Product Type	Coaxial hardline cable
Product Brand	QR®

General Specifications

Cable Type	860 Series
Construction Type	Welded
Jacket Color	Black
Short Description	QR 860 JCA SM PR2171

Dimensions

Cable Length	2950 ft 899.16 m
Diameter Over Center Conductor, nominal	0.203 in 5.156 mm
Diameter Over Dielectric, nominal	0.828 in 21.031 mm
Diameter Over Jacket, nominal	0.96 in 24.384 mm
Diameter Over Outer Conductor, nominal	0.86 in 21.844 mm
Jacket Thickness, nominal	0.05 in 1.27 mm
Outer Conductor Thickness, nominal	0.016 in 0.406 mm

Electrical Specifications

Capacitance	50.197 pF/m 15.3 pF/ft
Capacitance Tolerance	±1.0 pF/ft
Characteristic Impedance	75 ohm
Characteristic Impedance Tolerance	±2 ohm
dc Resistance Note	Nominal values based on a standard condition of 20 °C (68 °F)

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dc Resistance, Inner Conductor, nominal	1.345 ohms/km 0.41 ohms/kft
dc Resistance, Loop, nominal	2.395 ohms/km 0.73 ohms/kft
dc Resistance, Outer Conductor, nominal	1.05 ohms/km 0.32 ohms/kft
Jacket Spark Test Voltage	5000 Vac
Nominal Velocity of Propagation (NVP)	88 %
Operating Frequency Band	5–3000 MHz
Structural Return Loss	24 dB @ 1003–1218 MHz 24 dB @ 1219–1794 MHz 30 dB @ 5–1002 MHz
Structural Return Loss, Grade N	≥24 dB @ 1003–1218 MHz ≥24 dB @ 1219–1794 MHz ≥30 dB @ 5–1002 MHz

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5.0	0.3	0.09
55.0	1.05	0.32
85.0	1.31	0.4
204.0	2.07	0.63
211.0	2.1	0.64
250.0	2.3	0.7
300.0	2.49	0.76
350.0	2.72	0.83
400.0	2.89	0.88
450.0	3.12	0.95
500.0	3.28	1
550.0	3.48	1.06
600.0	3.61	1.1
750.0	4.07	1.24
865.0	4.36	1.33
1000.0	4.72	1.44
1002.0	4.75	1.45
1218.0	5.28	1.61
1500.0	6.12	1.87
1794.0	6.86	2.09
1800.0	6.87	2.1
2000.0	7.36	2.24

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2200.0	7.83	2.39
2500.0	8.51	2.59
2700.0	8.96	2.73
3000.0	9.61	2.93

Material Specifications

Center Conductor Material	Copper-clad aluminum
Dielectric Material	Foam PE
Jacket Material	PE
Outer Conductor Material	Aluminum

Mechanical Specifications

Minimum Bend Radius, bonded	7 in 177.8 mm
Pulling Tension, maximum	450 lb 204.117 kg

Environmental Specifications

Environmental Space	Aerial
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Packaging and Weights

Packaging Type	Reel
Weight, gross	431.568 kg/km 290 lb/kft

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

